Ministry of
Northern Development
and Mines

Ontario

ONTARIO GEOLOGICAL SURVEY

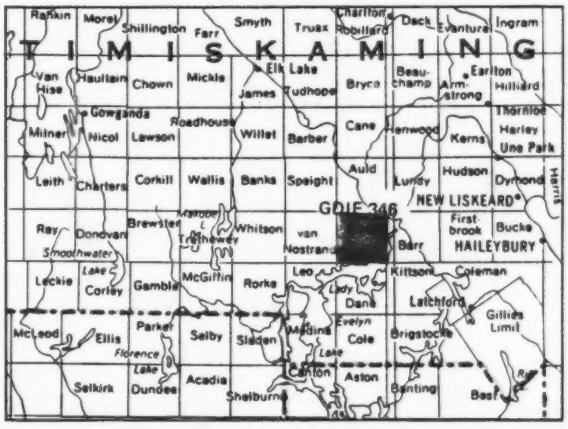
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 346

KLOCK TOWNSHIP

DISTRICT OF TIMISKAMING

Compiled by the Staff of
the Resident Geologist's Office
Cobalt



LOCATION MAP Scale: 1:1 013 760 or 1 inch to 16 miles

87-03347/

NTS Number 41P/8

Mining Claim Map Number M-227

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1986: Klock Township, District of Timiskaming; Ontario Geological Survey, Geological Data Inventory Folio 346, Compiled by the Staff of the Resident Geologist's Office, Cobalt; 21 pages and 2 maps

Original Compilation by: Patricia Anderson, July 3, 1986

Date	Page Revised	Revised by

Date	Page Revised	Revised by

KLOCK TOWNSHIP

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ACCOMPANYING MAPS

Property Location Map - 1 map

Exploration Data Map - 1 map

Map Scale 1: 31 680 or 1 inch to ½ mile

KLOCK TOWNSHIP

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	D.P.A.
2	Assessment Files Research Office, Toronto	No	D.P.A.
3	ODM General Index; 9 volumes	Yes	D.P.A.
4	Catalogue of Airborne Geophysical Surveys (ODM)	No	D.P.A.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	D.P.A.
6	ODM Industrial Mineral Reports	No	D.P.A.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	D.P.A.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	No	D.P.A.
9	Newspaper Clippings File	No	D.P.A.
10	GSC Index to Publications	Yes	D.P.A.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	D.P.A.
12	OGS Index Maps	No	D.P.A.
13	Source Mineral Deposit Records (O.G.S.)	Yes	D.P.A.
14	Author - Subject Articles File	No.	D.P.A.
15	Miscellaneous Papers: ODM & OGS	Yes	D.P.A.
16	ODM Geological Circulars: OGS Study Series	No	D.P.A.
17	ODM Preliminary Reports: ODM Bulletins	No	D.P.A.
18	ODM – OGS Open File Reports	Yes	D.P.A.
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	D.P.A.
20	OGS Aggregate Resources Inventory Papers	N.A.	D.P.A.
21	OGS Mineral Potential Maps	No	D.P.A.
22	Theses on File, Cobalt	No	D.P.A.
23	Aerial Photographs on File, Toronto	Yes	D.P.A.
24	Aerial Photographs on File, Cobalt	Yes	D.P.A.

METALS AND MINERALS REFERENCES LIST

- △ anh. . . . . Anhydrite
- △ ank. . . . . Ankerite
- △ anna . . . . . Annabergite
- △ ap. . . . . Apatite
- △ arg . . . . . Argentite
- △ As . . . . . Arsenic
- △ asp . . . . . Arsenopyrite
- △ asb . . . . . Asbestos
- △ ba. . . . . Barite
- △ be. . . . . Beryl
- △ Bi. . . . . Bismuth
- △ bn . . . . . Bornite
- △ bran . . . . . Brannerite
- △ bruc . . . . . Brucite
- △ Cd . . . . . Cadmium
- △ calc. . . . . Calcite
- △ carb . . . . . Carbonate
- △ cel . . . . . Celestite
- △ cc. . . . . Chalcocite
- △ cp. . . . . Chalcopyrite
- △ ch. . . . . Chert
- △ clay . . . . . Clay
- △ Co . . . . . Cobalt
- △ cob. . . . . Cobaltite
- △ cb. . . . . Columbite
- ▲ Cu . . . . . Copper
- △ cor . . . . . Corundum
- △ dol . . . . . Dolomite
- △ ep. . . . . Epidote
- △ ery . . . . . Erythrite
- △ fel . . . . . Feldspar
- △ fl . . . . . Fluorite (flurospar)
- △ fu. . . . . Fuchsite
- △ gn. . . . . Galena
- △ gt. . . . . Garnet
- △ goe . . . . . Goethite
- △ Au . . . . . Gold
- △ gf. . . . . Graphite
- △ gl . . . . . Gravel
- △ gyp. . . . . Gypsum
- △ hem . . . . . Hematite
- △ il . . . . . Ilmenite
- △ Fe . . . . . Iron
- △ IF. . . . . Iron Formation
- △ jas . . . . . Jasper
- △ kaol . . . . . Kaolinite (kaolin)
- △ ky . . . . . Kyanite
- ▲ Pb . . . . . Lead
- △ lim . . . . . Limonite
- △ Li. . . . . Lithium
- △ mgst . . . . . Magnesite
- △ mag . . . . . Magnetite
- △ mc . . . . . Malachite
- △ Mn . . . . . Manganese
- △ mb . . . . . Marble
- △ mar. . . . . Marcasite
- △ ma . . . . . Marl
- △ mi . . . . . Mica
- △ ml . . . . . Millerite
- △ mo . . . . . Molybdenite
- △ Mo . . . . . Molybdenum
- △ mon . . . . . Monazite
- △ ne. . . . . Nephelite (nepheline)
- △ nc. . . . . Niccolite
- △ Ni. . . . . Nickel
- △ Nb . . . . . Niobium
- △ Pd . . . . . Palladium
- △ peat . . . . . Peat
- △ pent . . . . . Pentlandite
- △ Pt. . . . . Platinum
- △ py . . . . . Pyrite
- △ pyl . . . . . Pyrochlore
- △ pyrl . . . . . Pyrolusite
- △ po . . . . . Pyrrhotite
- △ q . . . . . Quartz
- △ qcv . . . . . Quartz carbonate vein
- △ ra. . . . . Radioactive minerals
- △ RE . . . . . Rare Earths
- △ sd. . . . . Sand
- △ sgl . . . . . Sand and gravel
- △ ss . . . . . Sandstone
- △ scap . . . . . Scapolite
- △ shee . . . . . Scheelite
- △ serp . . . . . Serpentine
- △ sh. . . . . Shale
- △ sid . . . . . Siderite
- △ si . . . . . Silica
- ▲ Ag . . . . . Silver
- △ sl . . . . . Slate
- △ sm . . . . . Smaltite
- △ sod. . . . . Sodalite
- △ spec . . . . . Specularite
- △ sp. . . . . Sphalerite
- △ spd. . . . . Spodumene
- △ staur . . . . . Staurolite
- △ stib. . . . . Stibnite
- △ st . . . . . Stone
- △ talc. . . . . Talc
- △ Te . . . . . Tellurium
- △ td. . . . . Tetrahedrite
- △ th. . . . . Thorite
- △ Th . . . . . Thorium
- △ thuc . . . . . Thucholite
- △ ti . . . . . Titanite
- △ Ti. . . . . Titanium
- △ tour . . . . . Tourmaline
- △ trap . . . . . Trap rock
- △ W. . . . . Tungsten
- △ uran . . . . . Uraninite
- △ U . . . . . Uranium
- △ verm . . . . . Vermiculite
- △ Y . . . . . Yttrium
- ▲ Zn . . . . . Zinc
- △ zr. . . . . Zircon

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps or listed in Drillhole Summary.

KLOCK TOWNSHIP

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A.	Haycock	Ag - major Cu, Zn, Pb - minor	T-0116	T-98 MDC 10, p. 360, 361, 366 Pb1	Klock Twp. AF, Haycock OBM, 1926, AR 35, pt. 3, p. 101
B.	Barbana (Klock and Barr Twps.)	Cu, Zn		T-96	Klock Twp. AF, Barbana
C.	Inland	Cu - major Pb, Zn - minor	T-0115		OGS, 1973, GR 106, p. 96

GDIF FORM NO. 1

4 KLOCK TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
1	Haycock; Edward, Klock, James and Haycock; Haycock Lead Mine			pre 16		07 16														
2	Mark, Howard A. with L. Brennan and F. Strickland			70				70												
3	Watts, Harold A.			72																

GDIF FORM NO. 2

KLOCK TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
	No data available as of July 3, 1986								

GDIF FORM NO. 1

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AIRBORNE GEOPHYSICAL SURVEY DATA			Flight Altitude	Flight Line Direction	Flight Line Spacing
No.	By For	Type of Survey			
	No data available as of July 3, 1986				

GDIF FORM NO. 4

KLOCK TOWNSHIP

GEOCHEMICAL SURVEY DATA

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference
	No data available as of July 3, 1986			

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result
	No data available as of July 3, 1986			

LANDSAT COLOUR PHOTO - NTS 31/M

LS	TR	FR	Date of Imagery	Band	Cycle/Day
2	20	27	13/10/81	C_1	136/10

on file in Cobalt office

GDIF FORM NO.6

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office, Cobalt.

No data available as of July 3, 1986

ODM GENERAL INDEX SEARCH

Words searched:

Barbana Mining Corp. Ltd.
Eagle Lake Fault
Haycock, E.B.
Inland Occurrence
Klock, James
Klock Lake
Klock Township
Lady Evelyn Lake
Lady Evelyn River
Moccasin Creek
Moccasin Lake

Index Volume	Listing:	Report Volume	Part	Page
1	Haycock, E.B.			
	Acknowledgements to	*6		83, 85
	Gold mining, Manitou Lake	Bull (1)[1]		6
		*6		84
	See also Haycock Lead Mine			
	Haycock Lead mine, Lady Evelyn Lake			
	Geological notes	*25	2	15, 16
	Klock, James			
	Copper and lead mining,			
	Lady Evelyn Lake	*N.O.[2]		112
		*6		268
		*25	2	16
	Depot of	*N.O.		1, 2
	Lady Evelyn Lake, Timiskaming District			
	Cobalt near	*16	1	56
	Copper	*R.C.[3]		24
		*1		234
		*9		198
	Galena	*R.C.		29
	argentiferous	*13	1	101
		*16	2	67
		*19	2	131
		*25	2	15, 16
	Gold	*N.O.		112
	Named by Bell	*N.O.		105
	Rocks	*1		72, 73
		*16	2	121
	Route from to Shusawagaming Lake	*N.O.		86
	Silver near	*16	1	56
	Trees	*N.O.		xvii, 92

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
1	Lady Evelyn River, Lady Evelyn Lake			
	Fish	*N.O.		88, 94
	Trees	*N.O.		90, 93
	Valley, strike of	*N.O.		85
	Vegetation	*N.O.		94
2	Klock Township, Timiskaming			
	Quartz veins in diabase	25	3	101
8	Eagle Lake Fault			
	Klock Twp., Timiskaming District	GR 106		55, 53, 95
	Inland Deposits, Howard Mark, Klock Twp., Timiskaming District	GR 106		96
	Klock Deposits, Howard Mark			
	Klock and Barr Twps., Timiskaming District			
	mining property, report on	GR 106		97
	Klock Twp., Timiskaming District			
	copper/lead/zinc	GR 106		96, 97
	Geology of the Maple Mountain area	GR 106		
	silver	MRC 10		366
	Lady Evelyn Lake			
	Maple Mountain area, Timiskaming District	GR 106		31, 33, 51, 97
	Lady Evelyn Lake Anticline			
	Maple Mountain area, Timiskaming District	GR 106		53, 54

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
8	Lady Evelyn Lake Fault,			
	Maple Mountain area, Timiskaming District	GR 106		53, 55
	Lady Evelyn River			
	Barr Twp., Timiskaming District	GR 106		60, 95, 96, 97
	Moccasin Creek			
	Auld Twp., Timiskaming District	GR 106		82
	Moccasin Lake Fault			
	Klock Twp., Timiskaming District	GR 106		95

* Out of Print

1- Bulletin

2- Report of the Survey and Exploration of Northern Ontario, 1900

3- Report of the Royal Commission on the Mineral Resources of Ontario, 1890

GDIF FORM NO. 8

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
Card, K.D., et al	1971	Sudbury-Cobalt Sheet; Algoma, Manitoulin, Nipissing, Parry Sound, Sudbury and Timiskaming Districts, Ontario	ODMNA Map 2188	1:253 440
Card, K.D., Lumbers, S.B.	1977	Sudbury-Cobalt, NTS 31L/W, 31M/SW, 41I, 41P/S, Sudbury & AL 5 Districts, Ontario	OGS Map 2361	1:253 440
		GEOPHYSICAL MAPS		
	1956	Lady Evelyn Lake, aeromagnetic	GSC Map 281G	
	1965	Lady Evelyn Lake, Ontario, NTS 41P/8	GSC Map 1504G	1:63 360
GSC-OGS	1979	Airborne Gamma Ray Spectrometry Maps & Profiles, NTS 41P, Sudbury & 2 AL Districts, Ontario	OGS Maps 80372-80410	1:250 000
Gupta, V.K., Wadge, D.R.	1980	Bouger Gravity and Generalized Geological Map, Temagami-Englehart Area, Districts of Timiskaming, Nipissing & Sudbury	OGS Map P.2296	1:100 000
	1981	Temiskaming-Kapuskasing Region Magnetic Anomaly Map	GSC Map 1563	1:1 000 000
Gupta, V.K., Grant, F.S., Boud, A.	1981	A Gravity Study in North-Central Ontario, Districts of Sudbury, Nipissing and Timiskaming; in Summary of Field Work, 1981, edited by J. Wood et al, Ontario Geological Survey	OGS MP 106	No. 26 pp. 160-164

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOPHYSICAL MAPS		
Gupta, V.K.	1982	Gravity and Aeromagnetic Studies in North-Central Ontario: A Progress Report; in Summary of Field Work, 1982, edited by J. Wood et al, Ontario Geological Survey	OGS MP 106	No. 24 pp. 165-167
Mansinha, L., Wilkinson, D.A.	1983	Interpretation of Gravity Data from New Liskeard, Ontario; Ontario Geoscience Research Grant Program, Grant No. 109	OGS OFR 5440	
GSC	1984	Sudbury, Ontario-Quebec, IMW NL 16/17 Magnetic Anomaly Map	GSC Map NL 16/17-M	1:1 000 000
Gupta, V.K.	1985	Cobalt Embayment Interpretation: Depth to Basement and Distribution of Nipissing Diabase from Aeromagnetics; in Summary of Field Work and Other Activities, 1985, edited by John Wood, Owen L. White, R.B. Barlow and A.C. Colvine, Ontario Geological Survey	OGS MP 126	pp. 178-181
		Earth Physics Branch Gravity Map Series	EPB Maps No. 84 and No. 134	1:500 000
		Aeromagnetic Map	MNR Map 7076G	1:253 440
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
	1951	Maple Mountain Ontario, topographic	NTS 41P/SE	1:126 720
	1976	Lady Evelyn Lake, Ontario, topographic	NTS 41P/8	1:50 000
	1977	Sudbury, topographic	NTS 41P	1:250 0 00

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
Roed, M.A.	1979	Maple Mountain, NTS H1P/SE	NOEGTS 89 OGS Map 5023	1:100 000
	1982	Ontario Basic Map Sheets	MNR Maps 20 17 5700 52500 20 17 5600 52600 20 17 5700 52600 20 17 5600 52500	1:20 000
		Claim Map, Klock Twp.	MNR Map Plan No. M-227	1" = 40 ch.
		MINERAL POTENTIAL		
Springer, J.	1977	Ontario Mineral Potential, Gogama Sheet and Part of Ville-Marie Sheet, NTS 41P, 31M/W, Timiskaming and Sudbury Districts, Ontario	OGS Map P.1514	1:250 000
		GEOCHEMICAL		
		No data avilable as of July 3, 1986		
		GEOLOGICAL REPORTS AND MAPS		
Barlow, A.E.	1899	Report on the Geology and Natural Resources of the Area Included by the Nipissing and Timiskaming Map Sheets, Comprising Portions of the District of Nipissing, Ontario and of the County of Pontiac, Quebec	*GSC Annual Report vol. X, pt. I *GSC Map 599	1:253 440

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOLOGICAL REPORTS AND MAPS		
Miller, W.G.	1906	The Cobalt-Nickel Arsenides and Silver Deposits of Temiskaming, Ontario	*OBM Annual Report, 1905, vol. 14, pt. 2	
Barlow, A.E.	1908	Second Edition of a Report on the Geology and Natural Resources of the Area Included by the Nipissing and Timiskaming Map Sheets	*GSC Separate Report 962	
Miller, W.G.	1908	The Cobalt Nickel Arsenides and Silver Deposits of Temiskaming (3rd Edition), Other Temiskaming Cobalt Areas, Part of Montreal River and Temagami Forest Reserve	*OBM Annual Report, 1907, vol. 16, pt. 2 OBM Map 16f	pp. 117-128 1:63 360
Collins, W.H.	1909	Montreal River District, Ontario	*GSC Summary Report, 1908	pp. 115-120
Collins, W.H.	1910	The Florence Lake and Montreal River District, Ontario	*GSC Summary Report, 1909	pp. 168-172
Knight, C.W.	1913	The Cobalt-Nickel Arsenides and Silver Deposits of Temiskaming (4th Edition), The Outlying Cobalt-Silver Areas, Montreal River and Temagami Forest Reserve, Ontario	*OBM Annual Report, 1910, vol. 19, pt. 2, ch. 2	pp. 155-164
Collins, W.H.	1914	The Geology of Gowganda Mining Division	*GSC Memoir 33 *GSC Map 64A	1:63 360
Burrows, A.G.	1922	Gowganda and Other Silver Areas, 1. Gowganda Silver Area (4th Report), Timiskaming District, Ontario	ODM Annual Report, 1921, vol. 30, pt. 3, ODM Map 30b	pp. 1 - 48 1: 63 360

GDIF FORM NO. 9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOLOGICAL REPORTS AND MAPS		
Todd, E.W.	1926	Anima-Nipissing Lake Area, Timiskaming and Nipissing District, Ontario	ODM Annual Report, 1926, vol. 35, pt. 3 ODM Map 35c	pp. 79-104 1:63 360
Donovan, J.F.	1965	Maple Mountain Sheet, Districts of Sudbury, Timiskaming and Nipissing, Ontario	ODM Map P.301	1:126 720
Roscoe, S.M.	1969	Huronian Rocks and Uraniferous Conglomerates in the Canadian Shield	GSC Paper 68-40	205p.
Card, K.D., McIlwaine, W.H., Meyn, H.D.	1970	Operation Maple Mountain, Districts of Timiskaming, Nipissing and Sudbury, Ontario	ODMNA OFR 5050 ODM Map P. 585	1:63 360
Card, K.D., McIlwaine, W.H., Meyn, H.D.	1973	Geology of the Maple Mountain Area, Districts, of Timiskaming, Nipissing and Sudbury, Ontario	ODM GR 106 ODM Map 2257	1:63 360
Wood, J.	1979	Regional Geology of the Cobalt Embayment, Districts of Sudbury, Nipissing and Timiskaming; in Summary of Field Work, 1979, edited by V.G. Milne et al, Ontario Geological Survey	OGS MP 90	No. 18 pp. 79-81
Wood, J.	1980	Regional Geology of the Cobalt Embayment, Districts of Sudbury, Nipissing and Timiskaming; in Summary of Field Work, 1980, edited by V.G. Milne et al, Ontario Geological Survey	OGS MP 96	No. 14 pp. 61-63

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOLOGICAL REPORTS AND MAPS		
Colvine, A.C.	1981	Reconnaissance of the Lorrain Formation, Northern Cobalt Embayment; in Summary of Field Work, 1981, edited by J. Wood et al, Ontario Geological Survey	OGS MP 100	No. 29 pp. 187-189
Donaldson, J.A. et al	1984	Grant No. 173, Sedimentary Rocks and Strata-bound Mineralization in the Cobalt Region; in Geoscience Research Grant Program, Summary of Research 1983-1984, edited by V.G. Milne, Ontario Geological Survey	OGS MP 121	pp. 198-210
GSC	1984	Sudbury, Ontario and Quebec, IMW NL 16/17, Magnetic Anomaly Map	GSC Map NL 16/17-M	1:100 000
		JOURNAL ARTICLES, THESES, TECHNICAL REPORTS		
		No data available as of July 3, 1986		
		* Out of Print		

NOTES AND ADDENDA

The exploration data map shows only the most important minerals found at each site. All the minerals noted are listed in the mineral occurrences or the drill hole data.

On the maps, only areas for which work has been submitted to the Ministry are shown and thus a company may hold, or have held in the past, more ground than is shown.

No present or past producers.

The township was closed to staking in 1978 due to the Bear Island Indian Caution.

AIR PHOTOS - on file in Toronto

Only 1977 photos area available for viewing at the Public Service Centre, Rm. 1640, Whitney Block.

Photos can also be ordered from here for the years 1946, 1958 and 1970.

YEAR	ROLL	STRIP	PHOTO
1946	51	115	60-68
	53	114	115-123
	57	113	7-14
	219	112	15-22
	206	111	33-39
1958R	121	4721	269-275
1958	41	4720	127-131
	18	4720	1-5
	18	4719	65-71
	18	4718	130-136
	18	4718	139-141
	18	4717	170-176
1970	44	4721	189-196
	19	4720	272-277
	44	4720	221-228
	19	4719	179-183
	41	4719	2-8
	19	4718	90-92
	40	4718	29-36
	41	4717	64-71
1978	45	4721	9-15
	2	4720	51-58
	45	4719	96-103
	3	4717	129-135

GOIF FORM NO.10

NOTES AND ADDENDA

AIR PHOTOS - on file in Cobalt

YEAR	ROLL	STRIP	PHOTO
1970	41	4719	1-7
	41	4718	29-33
	41	4717	70-76

High Altitude Photos - A17540 - 48, 52 & 53

Ministry of Northern Development and Mines

Ontario

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 346

(Map 1 of 2)

KLOCK TOWNSHIP

DISTRICT OF TIMISKAMING

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

47°29'00"

80°02'00"

80°08'00"

EXPLORATION DATA FILE AREAS

GEOLOGICAL DATA INVENTORY FOLIO 346

(Map 1 of 2)

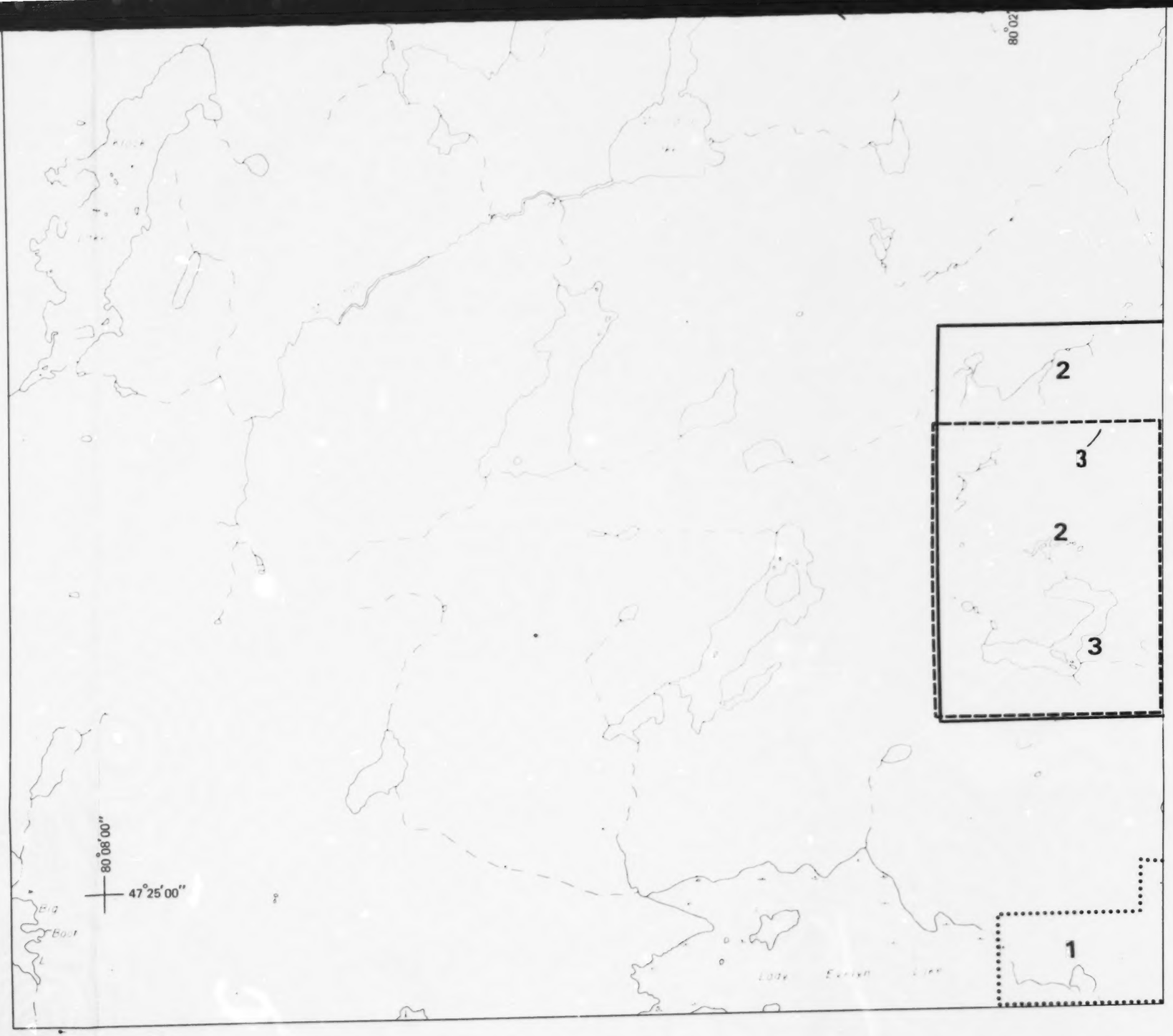
KLOCK TOWNSHIP

DISTRICT OF TIMISKAMING

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile



EXPLORATION DATA FILE AREAS

■ ① ⑥ Reference number is always inside work area outlined. See listing in text pages.

□ x ④ Small area exploration.

TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

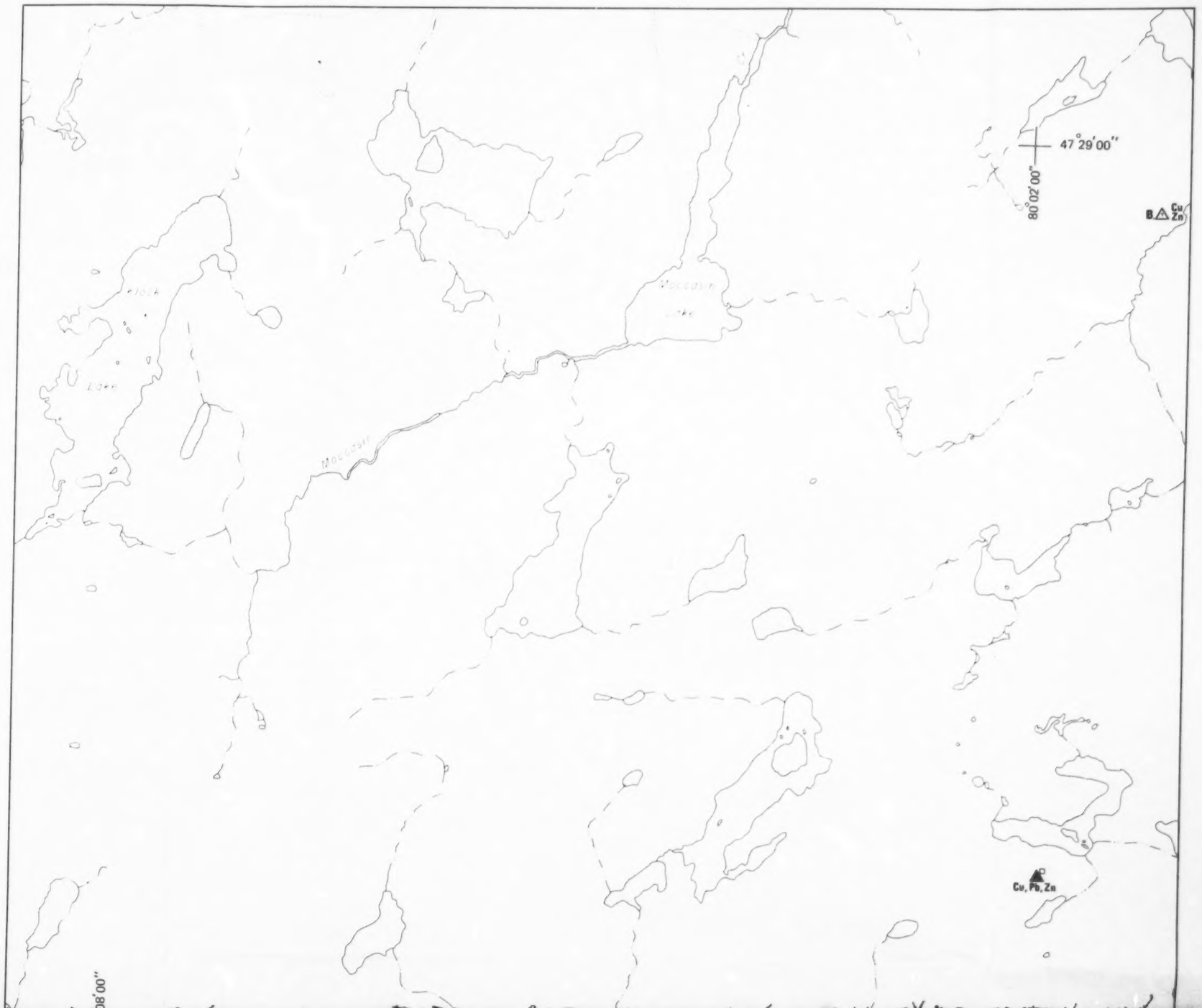
- ☐ ◆³ Geochemical sample site, with reference number
- ☐ ◆³ Area of geochemical sampling, with reference number
- ☐ ✳² Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- ☐ —AM— Airborne magnetic anomaly
- ☐ Airborne electromagnetic anomaly Length of anomaly along flight line
- ☐ Airborne electromagnetic anomaly Location of anomaly along flight line
- ☐ Airborne electromagnetic anomaly Conductor axis: definite, probable, possible
- ☐ —ARA— Airborne radiometric anomaly
- ☐ —M— Ground magnetic anomaly
- ☐ VL Ground electromagnetic anomaly (VL - Vertical loop; HL - Horizonal loop; VLF - Very low freq; Turam; JEM - Crone Em - 16)
- ☐ —RA— Ground radiometric anomaly
- ☐ —IP— Induced polarization anomaly
- ☐ —SP— Self potential anomaly
- ☐ —AFMAG— Audio-frequency magnetic anomaly (total intensity)
- ☐ —R— Resistivity anomaly
- ☐ —GR— Gravity anomaly

MISCELLANEOUS DATA

- ■ Trenching, pit
- ☐ Rock quarry
- ☐ Adit
- ☐ Sand and/or gravel pit



Ministry of Northern Development and Mines

Ontario

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 346

(Map 2 of 2)

KLOCK TOWNSHIP

DISTRICT OF TIMISKAMING

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- ■ cp A. — Mineral occurrence at surface, with reference letter
- □ Au A. 84' — Mineral occurrence with shaft, depth given with reference letter
- ■ Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- □ cp A. — Mineralized float with reference letter

DRILLHOLE

- □ 2 — Location of single drillhole, with reference number
- □ 2 — Location of closely spaced group of drillholes, with reference number
- □ ?2 — Drillhole, exact location uncertain, with reference number
- □ — Property with underground drillholes in this general area, with

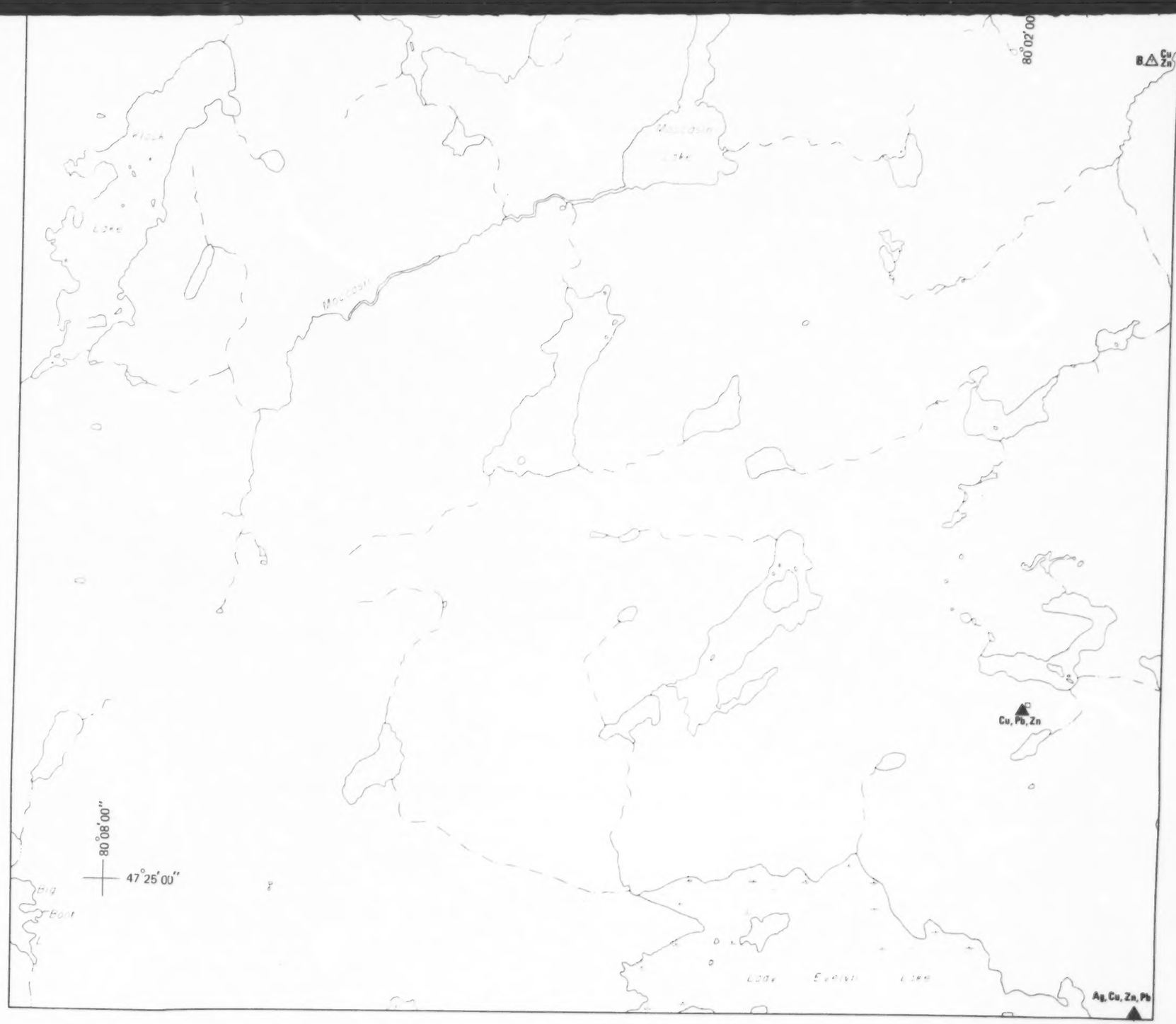
GEOPHYSICAL ANOMALIES

- ☐ AM — Airborne magnetic anomaly
- ☐ Airborne electromagnetic anomaly
  Length of anomaly along flight line
- ☐ Airborne electromagnetic anomaly
  Location of anomaly along flight line
- ☐ Airborne electromagnetic anomaly
  Conductor axis: definite, probable, possible
- ☐ ARA — Airborne radiometric anomaly
- ☐ M — Ground magnetic anomaly
- ☐ VL — Ground electromagnetic anomaly
  (VL - Vertical loop; HL - Horizonal loop;
  VLF - Very low freq; Turam; JEM -
  Crone Em - 16)
- ☐ RA — Ground radiometric anomaly
- ☐ IP — Induced polarization anomaly
- ☐ SP — Self potential anomaly
- ☐ AFMAG — Audio-frequency magnetic anomaly
  (total intensity)
- ☐ R — Resistivity anomaly
- ☐ GR — Gravity anomaly

MISCELLANEOUS DATA

- ■ Trenching, pit
- ☐ Adit
- ☐ Open pit
- ☐ Rock quarry
- ☐ Sand and/or gravel pit

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.



EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 346

(Map 2 of 2)

KLOCK TOWNSHIP

DISTRICT OF TIMISKAMING

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

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DRILLHOLE

- □ ●² — Location of single drillhole, with reference number
- □ ◉² — Location of closely spaced group of drillholes, with reference number
- □ (?)² — Drillhole, exact location uncertain, with reference number
- □ — Property with underground drillholes in this general area, with reference number
- □ ○² — Property with drillholes which have not been plotted on map, with reference number
- □ ⊕² — Reverse circulation drillhole; churn drilling, with reference number